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THE SPECTRA OF TEN STARS OF VERY LOW LUMINOSITY.

The spectral classification of the following ten stars is of interest because they are among the very faintest stars intrinsically that are known:—

	Mag	R.A. 1910		Dec.		μ	π	(*Sun* = 1) Lum.	(*Sun* = 5.5) Abs. Mag	Spec.
		h	m	°	′	″	″			
Comp. to o *Eridani* .	9.1	4	11.2	—7	48	4.08	+0.174	0.012	10.3	A0
Lal. 21185	7.6	10	58.4	+36	35	4.77	0.403	0.009	10.6	Ma
Lal. 21258	8.9	11	1.1	+43	59	4.46	0.203	0.011	10.4	Ma
A Oe 17415-6	9.3	17	37.0	+68	26	1.31	0.268	0.004	11.4	Mb
Comp. to μ *Herculis*	11.0	17	42.9	+27	46	0.31	0.106	0.006	11.1	Ma
Pos. Med. 2164 ...	9.3	18	41.9	+59	30	2.28	0.292	0.003	11.6	Ma
Comp. to 17 *Lyræ*..	12.0	19	4.0	+32	21	1.66	0.15	0.001	12.9	Ma
Lal. 40844	9.0	21	0.9	+6	43	0.57	0.167	0.014	10.1	K6
Kruger 60	9.2	22	24.8	+57	15	0.92	0.256	0.005	11.2	Mb
Lal. 46650	8.9	23	44.5	+1	55	1.40	0.183	0.013	10.2	Ma

No less than eight of the ten stars are of type M, while one of the remaining two is of the advanced type K6. The A star, companion to *o Eridani,* has been referred to in a previous note in this publication. The great preponderance of the M type of spectrum is of especial importance in its bearing on the colors of faint stars.

It is of interest to note that in all of these stars, except the A0 star, the calcium lines at λ 4435 and λ 4455 are very prominent. We have found previously that these lines appear to serve as an excellent criterion of absolute magnitude.

W. S. ADAMS and F. G. PEASE.

COLOR INDICES IN THE SYSTEM OF TW ANDROMEDÆ.

For the purpose of determining simultaneously the photographic and photovisual light curves of the eclipsing binary TW *Andromedæ,* and in particular to ascertain the relative color of the faint companion, a series of observations has been undertaken with the 60-inch reflector. Sixty-five plates, representing a total of nearly 300 exposures, have been secured up to the present, and since considerable time must elapse before the observations can be completed and the plates measured and discussed, provisional results will be reported in the present note.